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Title	**WIRELESS LOCAL AREA NETWORK SYSTEM WITH MULTIPLE INPUTS AND MULTIPLE OUTPUTS**
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#2335852. Abstract

FIELD: information technology.

SUBSTANCE: system uses channel structure with several configurable transport channels. The system supports multiple data transmission speed values and modes, which can be configured on the basis of channel conditions and user terminal perfromance level. The system also uses pilot structures with several pilot signal type, for instance, beacon

(MIMO), controlled template and carrier pilot signal) for different functions, implements transmission speed , synchronisation and power control circuits to provide appropriate system operation, and uses random access for system access by user terminals, fast acknowledgement and quick resource assignment. To compensate for differences in frequency response of transmission/receiving circuits, calibration can be performed in access point and user terminals. Three-dimensional processing can be facilitated using advantages of downstream and upstream lines, as well as calibration.

EFFECT: increase of transmission bandwidth capacity.

18 cl, 33 dwg, 36 tbl

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